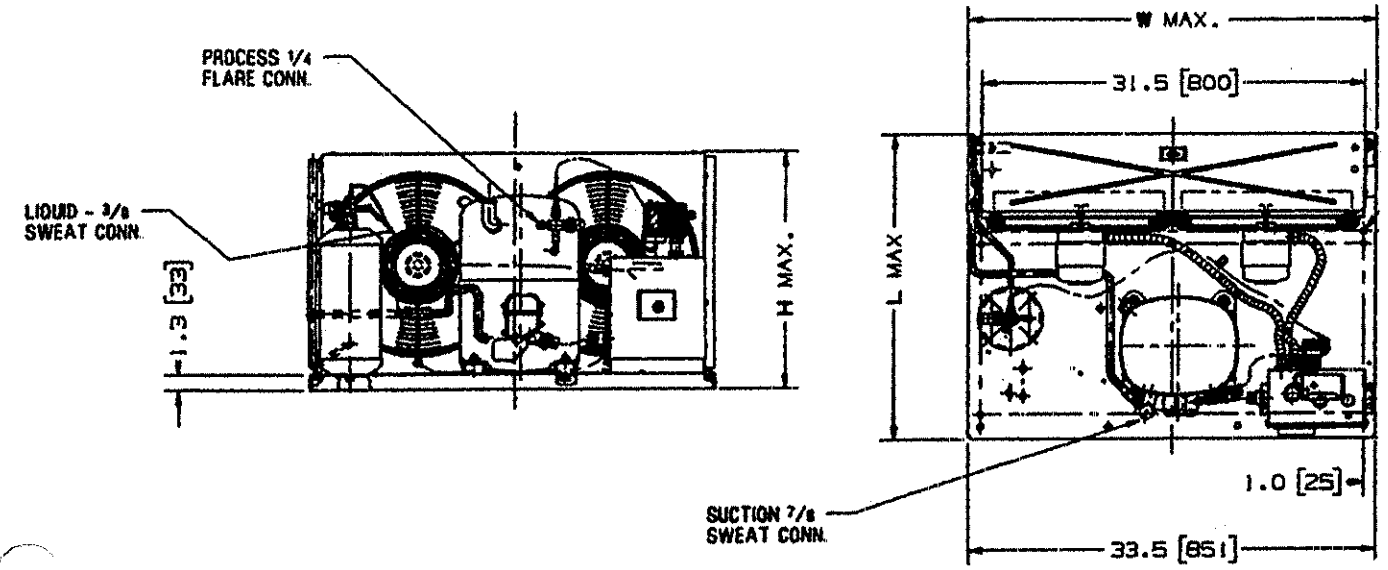
AVA2515ZXGXC

TECUMSEH HERMETIC CONDENSING UNITS

March 10, 2000

Revision 2003

MODEL AVA2515ZXGXC (B/M 2B3146-9) R-404A 4 HP AIR COOLED



NOTE DIMENSIONS = INCHES (MILLIMETERS) POE

Model	Dimensions				*Line Connection		Pumpdown 90 ° F 90% Full	Air CFM	Oil Chg oz.	Gr. Wt. Lbs.
	L	W	H	CH	Suct.	Liq.				
AVA2515ZXGXC	25.0	33.48	19.5	14.6	7/8 RS	3/8	12#	1596	54	130

*F=Flare, S=Solder, RF or RS= Rotolock Valve with Flare or Solder Connections
Factory charge: 20 psig nitrogen - MUST BE EVACUATED 60 HZ Performance

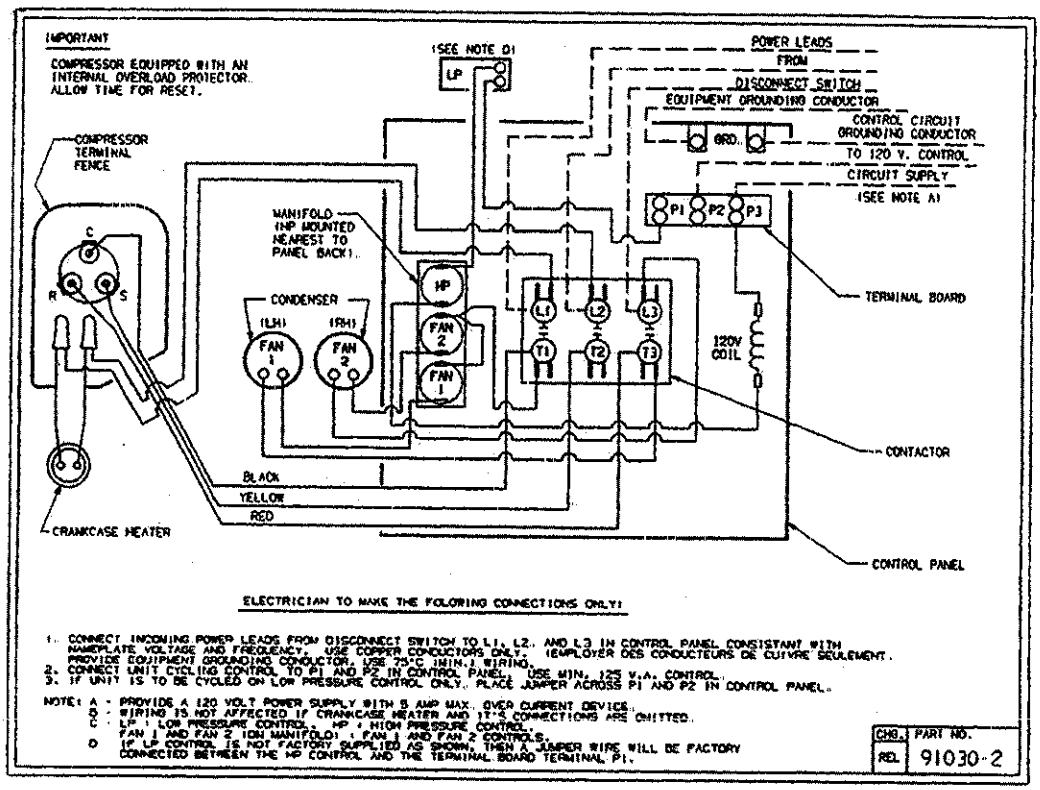
Approved Evap. Range		Ambient								
		90° F			100° F			110° F		
°F	PSIG	BTUH	Watts	Head	BTUH	Watts	Head	BTUH	Watts	Head
-40	5.5	5131	1869	231	-----	-----	-----	-----	-----	------
-35	8.0	6404	2083	234	4762	1928	266	-----	-----	---------
-30	10.7	7791	2311	239	6211	2202	271	------	------	--------
-25	14.0	9291	2554	245	7705	2483	277	5144	2073	310
-20	17.1	10905	2811	252	9244	2772	283	6661	2424	317
-15	19.25	12633	3082	259	10830	3068	291	8206	2775	325
-10	24.5	14475	3367	268	12461	3372	301	9779	3126	334
-5	28.8	16431	3667	279	14138	3683	311	11381	3477	343
0	33.5	18500	3981	290	15861	4002	322	13011	3828	354
5	36.5	20683	4309	302	17629	4328	334	14669	4179	366
10	43.7	22980	4652	316	19443	4662	348	16356	4530	378

Return gas temp. 45 ° F, 5 ° F subcooling

Date: January 2003
Unit Catalog Update

SPECIFICATIONS	**AVA2515ZXGXC**
Nominal Voltage	460-3
Unit B/M	2B3146-9
Voltage Range	506 to 414
Min. Circuit Ampacity	8.9
Max. Fuse Size (Amps)	15
Compressor Model	**AVA2512ZXG**
Comp. Bill of Material	AV180TT-013
RLA/LRA	6.2/38.3
ESP Overload	Internal
Control Panel	AC1389-4
Fan Switch (s)	84094-1
	84094-2
High Pressure Switch	84095-2
Control	84026-5 (LP)
Contactor	91014-1 (30 AMP-3PH,120V)

Fan Motor (OEM)	810G050A49
Fan RLA	.52 RLA
Replacement Motor	810G050A49
Fan Motor Bracket	Grd. Mnt.
Fan Blade	51568-1 (2 req)
Shroud	70648-2
Condenser	K42-17
Fan Guard	70831 (2 req)
Receiver Tank	51081-1
Receiver Tank Valve	31581-1 (3/8" S) RL
O' Ring Gasket	30334
Process Valve	31583-1 (1/4"F PV)
Optional Outdoor Enclosure	TP-241D
Crankcase Heater (If Inc)	NA
Unit Drawing	SUI920-4
Schematic or Elect. Drawing	91030-2


IMPORTANT
COMPRESSOR EQUIPPED WITH AN INTERNAL OVERLOAD PROTECTOR. ALLOW TIME FOR RESET.
(SEE NOTE D)
LP
POWER LEADS FROM DISCONNECT SWITCH
EQUIPMENT GROUNDING CONDUCTOR
GRD.
CONTROL CIRCUIT GROUNDING CONDUCTOR
TO 120 V. CONTROL CIRCUIT SUPPLY (SEE NOTE A)
COMPRESSOR TERMINAL FENCE
MANIFOLD (NP MOUNTED NEAREST TO PANEL BACK).
P1 P2 P3
TERMINAL BOARD
C
R
S
HP
CONDENSER
(LH)
(RH)
FAN 1
FAN 2
FAN 2
FAN 1
L1
L2
L3
T1
T2
T3
120V COIL
CONTACTOR
BLACK
YELLOW
RED
CRANKCASE HEATER
CONTROL PANEL
ELECTRICIAN TO MAKE THE FOLOWING CONNECTIONS ONLY!
1. CONNECT INCOMING POWER LEADS FROM DISCONNECT SWITCH TO L1, L2, AND L3 IN CONTROL PANEL CONSISTANT WITH NAMEPLATE VOLTAGE AND FREQUENCY. USE COPPER CONDUCTORS ONLY. (EMPLOYER DES CONDUCTEURS DE CUIVRE SEULEMENT. PROVIDE EQUIPMENT GROUNDING CONDUCTOR, USE 75°C (MIN.) WIRING.
2. CONNECT UNIT CYCLING CONTROL TO P1 AND P2 IN CONTROL PANEL. USE MIN. 12S V.A. CONTROL.
3. IF UNIT IS TO BE CYCLED ON LOW PRESSURE CONTROL ONLY, PLACE JUMPER ACROSS P1 AND P2 IN CONTROL PANEL.
NOTE: A - PROVIDE A 120 VOLT POWER SUPPLY WITH 5 AMP MAX. OVER CURRENT DEVICE.
B - WIRING IS NOT AFFECTED IF CRANKCASE HEATER AND 17'S CONNECTIONS ARE OMITTED.
C - LP = LOW PRESSURE CONTROL, HP = HIGH PRESSURE CONTROL.
FAN 1 AND FAN 2 (ON MANIFOLD) = FAN 1 AND FAN 2 CONTROLS.
D - IF LP CONTROL IS NOT FACTORY SUPPLIED AS SHOWN, THEN A JUMPER WIRE WILL BE FACTORY CONNECTED BETWEEN THE HP CONTROL AND THE TERMINAL BOARD TERMINAL P1.
CHG. REL.
PART NO.
91030-2

Some parts listed may be optional or listed as replacement parts.